

# WQAG MEETING SUMMARY

**July 14, 2008**

**Great Seneca Elementary School Media Center, Germantown, MD**

**7:00 p.m.– 9:00 p.m.**

Member and affiliation	Present		Others in attendance and affiliation
	Yes	No	
Ed Brandt, public-at-large	✓		Sean Gallagher, MCPS
Jill Coutts, scientific/academic	✓		Anya Caldwell, formerly MCPS
Rick Ducey, business	✓		Stan Edwards, DEP
Kay Fulcomer, public-at-large	✓		Mark Symborski
Erica Goldman	✓		
Scott Kauff, public-at-large	✓		
Glenn Moglen, scientific/academic	✓		
Daphne Pee, public-at-large		✓	
David Plummer, agricultural	✓		
Dusty Rood, Vice-Chair, business	✓		
Fred Samadani, agricultural	✓		
Larry Silverman, Chair, environmental	✓		
Mike Smith, environmental	✓		
Tanya Spano, environmental	✓		
Eileen Straughan, business	✓		
Martin Chandler, WSSC	✓		
Meo Curtis, DEP	✓		
Doug Redmond, MNCPPC	✓		

Agenda Item	Action
1. Welcome, approval of minutes, and draft agenda <i>Chair Larry Silverman</i>	Chair Silverman welcomed all to the Great Seneca Elementary School, thanking Sean Gallagher for making the final arrangements to allow the meeting. He asked and received approval for the June minutes and draft agenda.
2. Tour of Green School <i>Sean Gallagher and Anya Caldwell</i>	Anya Caldwell, formerly Green Schools Coordinator for MCPS, led the group on a 40 minute tour of the school and its green features. These included significant energy and water conservation features, in particular the geothermal unit which provides heating and cooling for the school. She emphasized during the tour that the principal and teacher spend a great deal of time reinforcing to the students and their parents the importance to human health and resource conservation which the school provides. The intent is for the students to carry this lifestyle when they move to the next school level.
3. Forest Conservation Law. <i>Vice-Chair Dusty Rood</i>	Chair Silverman had sent a draft comment letter to a broad distribution while Vice-Chair Rood had sent a separate draft comment letter to the smaller workgroup assigned at the last WQAG meeting to draft the comments. Chair Silverman included a synopsis of the comments provided by each of the WQAG members. The Vice Chair volunteered to develop a two part letter to send to Council, consisting of a cover letter with the major issues accompanied by detailed comments submitted by individual members of the WQAG. The draft would be circulated for final comments by early in the next week and the final submitted to the Transportation and Environment Committee prior to the scheduled work session on July 18. The final letter would also be sent via e-mail to the Energy and Air Quality Committee.
4. Water Resources Element <i>Mark Symborski, MNCPPC</i>	Mark Symborski distributed an update (Attachment 1) on the status of the timeline for the Water Resources Element Functional Master Plan. He noted that the MNCPPC intended to request the two time extensions allowed under State Law to submit by October 2010. Mr. Symborski told the WQAG that the MNCPPC did not need any additional resources to complete the WRE.

# WQAG MEETING SUMMARY

## July 11, 2008

Agenda Item	Action
5. Report on the Road Code Amendments for Stormwater. <i>Stan Edwards, DEP</i>	Stan Edwards presented an overview (Attachment 2) of the ongoing effort to amend the County's Road Code to correct obsolete sections, to provide consistency with the subdivision code, and to provide for more context sensitive solutions for 'the safety and convenience of all users of the roadway system including pedestrians, bicyclists, transit users, emergency service vehicles, automobiles, and commercial vehicles.' The stormwater revisions included goals for treating right of way runoff within the right of way using vegetated practices. The final recommendations of the Stakeholder Workgroup required less treatment volume than proposed in the legislation which mandated the update but were based on subsequent analyses of examples using recently completed road projects and right of way constraints. Proposed standards from the Stakeholder Workgroup would be discussed with the County Executive during July and August. Publication as Executive Regulations and public hearing were proposed for Fall 2008 and Council work sessions on proposed standards would likely take place during late 2008 into 2009.
6. Other Business and Planning for August Meeting. <i>Chair Silverman.</i>	Since it was now past 9 p.m., the agenda had to be curtailed since the School's custodian needed to lock up the school.. Chair Silverman reminded the Committee members that the August meeting would focus on budget needs for DEP, WSSC, and MNCPPC.
Next Meeting: August 11,2008	

# DRAFT

## Water Resources Functional Master Plan

### Plan Preparation Timeline and Milestones

Preliminary Target Date (Based on 10/01/10 Completion)	Milestone/Event
Sep/Oct, 07	Preliminary evaluation of State WRE Guidelines Draft Work Plan/Timeline and Milestones
Nov/Dec, 07	Organize Interagency Plan Workgroup <ul style="list-style-type: none"> <li>- Meet to discuss State WRE Guidance and Draft Work Plan</li> <li>- Identify roles and assign resources</li> <li>- Begin regular meetings               <ul style="list-style-type: none"> <li>- Discuss State WRE Guidance and Draft Work Plan</li> <li>- Identify preliminary work items that can be started</li> <li>- Assign, schedule and begin preliminary work items</li> </ul> </li> </ul>
Jan/Feb, 08	Begin meetings with stakeholder agencies <ul style="list-style-type: none"> <li>- Determine which State requirements can be fulfilled with current plans, and where additional work is needed</li> <li>- Begin developing tasks to satisfy HB 1141, and who will complete them</li> <li>- Begin collecting the data necessary to prepare the plan</li> </ul>
Mar 08/Aug, 08	Continue Interagency Team Meetings <ul style="list-style-type: none"> <li>- Discuss Draft WR Plan Approach and Methodology</li> <li>- Identify key elements of existing programs and plans</li> <li>- Formulate strategies to link key programs and plans within a functional master plan</li> <li>- Identify programmatic and policy gaps</li> <li>- Formulate gap-closing strategies</li> <li>- Draft Plan Approach and Methodology</li> </ul>
June /Sept, 08	Prepare a Purpose and Outreach type document, covering goals, concepts, guidelines & public participation process <ul style="list-style-type: none"> <li>- Summarize background information</li> <li>- Identify WR issues, needs, purpose, etc.</li> <li>- Identify items for the plan to address</li> <li>- Prepare outreach strategy</li> <li>- Write Draft Purpose and Outreach document</li> <li>- Present to Planning Board</li> </ul>
June/Sept, 08	Meetings with Municipalities and adjoining Counties, especially those sharing watersheds with Montgomery County <ul style="list-style-type: none"> <li>- Coordinate WRE development and strategies</li> </ul>

June/Sept, 08	<p>Continue Interagency and Interjurisdictional Coordination on programmatic and policy linkages and gap-closing, modeling, and mapping analyses (ground water, surface water, septic systems, water supply, wastewater, stormwater management, watershed, etc.)</p> <ul style="list-style-type: none"> <li>- Begin development of programmatic and plan linkages</li> <li>- Begin development of gap-closing policies</li> </ul>
June/Dec, 08	<p>Organization of and meetings with Stakeholders Focus Groups</p> <ul style="list-style-type: none"> <li>- Identify stakeholders</li> <li>- Schedule Focus Group Meetings</li> <li>- Hold Focus Group Meetings and solicit feedback</li> <li>- Continue interagency and interjurisdictional coordination on linkages, modeling, and mapping analyses (ground water, surface water, septic systems, water supply, wastewater, stormwater management, watershed, etc.)</li> </ul>
May, 09	Public Meeting to present Draft Plan recommendations
August, 09	Request two 6-month extensions from MDP
Sept, 09	Present Staff Draft Plan to Planning Board/Authorization to print and distribute for comment
Sept 09-Jan 10	Public Hearing Draft
Oct 09-Feb 10	Planning Board Public Hearing and Work Sessions
Feb 2010	Planning Board Draft Water Resources Plan to Executive and County Council
Feb 10-Sept 10	<p>County Executive Review</p> <p>County Council Review</p> <p>Public Hearing</p> <p>Work Sessions</p> <p>Approval (Sept 2010) and Adoption (Oct. 1, 2010)</p>



## Amendments to the Montgomery County Road Code (Chapter 49)

On July 3, 2007, the County Council passed adopted Bill 48-06 intended to:

- Comprehensively revise, update, clarify, and reorganize County law governing street and road design, construction, regulation, acceptance, abandonment, and funding
- Repeal obsolete provisions in and generally amend County law regarding streets and roads

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## Amendments to the Montgomery County Road Code (Chapter 49)

Important background:

- Current road standards have evolved over 40 years, during which time the character of Montgomery County has changed dramatically
- Responsibility for planning roads lies with M-NCPPC, and MCDOT has the responsibility to fund, build, operate and maintain roads
- The County Executive created a Stakeholder Work Group (SWG) to advise on the development of new road design standards

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## Amendments to the Montgomery County Road Code (Chapter 49)

The SWG charge was to develop new road design standards so that roads, walkways and bikeways are planned, designed and constructed to:

- Provide for the safety and convenience of all users of the roadway system including pedestrians, bicyclists, transit users, emergency service vehicles, automobiles, and commercial vehicles
- Facilitate multi-modal use
- Respect the natural and built environment through which they pass
- Address the requirements for control of quality and quantity of stormwater runoff within the road right-of-way

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### Amendments to the Montgomery County Road Code (Chapter 49)

Like all development, new roads are required to meet MDE standards for stormwater management:

- Quality Management – natural or manmade measures that treat/remove pollutants carried by the “first flush” of stormwater runoff
- Quantity/Volume Management – natural or man-made measures that control the volume and rate of stormwater runoff
- The location of management practices to meet these requirements is not specified

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### Amendments to the Montgomery County Road Code (Chapter 49)

What are the additional requirements for control of quality and quantity of stormwater runoff in Bill 48-06?

- Uncodified Standard – Each newly built or reconstructed street must *retain or filter* the following amounts of stormwater *on-site* during a 24-hour period:
  - ½ - 1” in an “urban” area
  - At least 2” in a “suburban” area
  - At least 3” in a “rural” area
- Current MDE Stormwater Design Manual specifies Water Quality Volume (WQv) as 1”

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### Amendments to the Montgomery County Road Code (Chapter 49)

Potential approaches to stormwater management:

- Performance Standards – Must achieve a target level of treatment, typically based on rainfall or runoff criteria
- Preferred BMP lists – Promote certain BMPs based on feasibility, design, constructability, maintenance, and performance
- Fixed percentage of project cost required to be applied entirely to treatment measures within the right-of-way (fixed percentage of project cost required to be maximized within right-of-way, with balance applied out of right-of-way)

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### Amendments to the Montgomery County Road Code (Chapter 49)

Consultants supporting SWG recommended combination of BMPs and performance standards:

- Vegetated Integrated Management Practices (V-IMPs) would be the preferred stormwater treatment in the right of way.
- The goal is to treat 25% WQv by V-IMPs to the extent physically possible within right-of-way buffers and/or medians for the given typical roadway section
- For open section residential roads, the goal is to treat 60% WQv by V-IMP's within the right-of-way to the extent practicable

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### Amendments to the Montgomery County Road Code (Chapter 49)

As currently written in the draft stormwater standard, V-IMPs could include, but are not limited to:

- Biofiltration (DPS Biofiltration Standard)
- Bioretention (DPS Infiltration Trench Standard)
- Bio-Swales (MDE Standard)
- Curb Inlet Biofiltration Structures (MDE Standard)
- Enhanced Wetland Facility (MDE Standard)
- Grassed Swales (MDE Standard)
- Open Section Roadways with Bio-Swales
- Vegetated Continuous Trench (MDE Standard)
- Vegetated Curb Extensions (DPS Biofiltration Standard)

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### Amendments to the Montgomery County Road Code (Chapter 49)

Final proposed figures based on evaluation of potential for implementing V-IMPs in three recently completed DOT road projects:

	No Trees	50' Tree Spacing (10' Root Zone)	50' Tree Spacing (15' Root Zone)
Greencastle Road	9%	5%	4%
Montrose Parkway	36%	22%	14%
Robey Road	47%	28%	19%

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## Amendments to the Montgomery County Road Code (Chapter 49)

SWG supports additional studies to understand impacts of stormwater from roads and effectiveness of V-IMPs:

- Vegetated Integrated Management Practice (V-IMP) Pilot Study testing for water quantity benefits from water quality measures, as well as the effect of stormwater on street trees
- Stream Channel Stability Pilot Study for establishing fluvial geomorphic mitigations for inadequate stormwater outfalls

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## Amendments to the Montgomery County Road Code (Chapter 49)

What are the next steps?

- Final SWG Meeting – July 18th
- Finalization of proposed standards for discussion with County Executive – July/August?
- Publication of proposed standards (as Executive Regulations) and public hearing – Fall 2008?
- Council worksessions on proposed standards – Late 2008 & 2009?

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# WQAG MEETING SUMMARY

**August 11, 2008**

**7:00 p.m.– 9:00 p.m.**

Member and affiliation	Present		Others in attendance and affiliation
	Yes	No	
Ed Brandt, public-at-large	✓		Tom Traber, WSSC Chief Financial Officer
Jill Coutts, scientific/academic	✓		Bob Hoyt, DEP Director
Rick Ducey, business	✓		Mark Symborski, MNCPPC Planning
Kay Fulcomer, public-at-large	✓		Greg Drury, Wholeness for Humanity
Erica Goldman	✓		Diane Cameron, ANS
Scott Kauff, public-at-large		✓	
Glenn Moglen, scientific/academic	✓		
Daphne Pee, public-at-large	✓		
David Plummer, agricultural	✓		
Dusty Rood, Vice-Chair, business	✓		
Fred Samadani, agricultural	✓		
Larry Silverman, Chair, environmental	✓		
Mike Smith, environmental	✓		
Tanya Spano, environmental	✓		
Eileen Straughan, business	✓		
Martin Chandler, WSSC	✓		
Meo Curtis, DEP	✓		
Doug Redmond, MNCPPC	✓		

Agenda Item	Action
1. Welcome, approval of minutes, and draft agenda <i>Chair Silverman</i>	Chair Silverman welcomed members and guests. The WQAG approved the draft agenda. The July meeting summary had not been prepared. Chair Silverman noted that the focus of the meeting was on budget issues and that he had compiled questions from the WQAG for this meeting (attached).
2. Tom Traber, WSSC	<p>Mr. Traber provided an overview of the budget process for WSSC and their significant infrastructure maintenance and repair needs. During FY09, WSSC had received an 8% rate increase but not the requested special assessment intended for accelerating the repair of the many miles of older pipes in the system. Prince Georges County was not happy with the FY09 proposal, and therefore WSSC need to develop a package that would be acceptable to both counties to address the outstanding maintenance needs.</p> <p>He went over the annual operating budget process which includes going through the Council to set the WSSC budget ceiling by October and then working with county staff on budget items. By mid-January, public hearings on the budget are published for February, one in each County. Each Council must separately approve the budget; if there is not consensus, then the original published budget becomes the default. The CIP budget is on a faster track with a long-term planning horizon--developed from April-May, public hearings in September, leading to budget adoption the next May.</p> <p>When asked if the WQAG could assist in the budget process, Mr. Traber encouraged the group to participate in the public hearing. Dusty Rood asked if the CIP included specific line items. Mr. Traber replied that only expensive projects with extended timelines were specified in the CIP. He encouraged all to visit the WSSC web site (<a href="http://www.wsscwater.com">www.wsscwater.com</a>) this fall for the proposed budget.</p>
3. Bob Hoyt, DEP	Mr. Hoyt began with the reorganization of county government which moved Solid Waste Services Division to DEP. This doubled the number of employees and increased the budget 10 times. The DEP has five big goals for tracking through County Stat. These include increasing watersheds that are in good or excellent condition; to reduce the number of impaired waters; to reduce greenhouse gas

Meeting was adjourned at 9:30 p.m.

Next meeting: Sept. 8, 2008

Meeting summary prepared by Meo Curtis, DEP

# WQAG MEETING SUMMARY

## August 11, 2008

Agenda Item	Action
	<p>emissions; to improve enforcement effectiveness, and to improve the process for water and sewer category changes, and to improve the link with land use planning. The issue related to the performance measures had to do with what can DEP actually control? What is DEP's contribution and how are its programs helping to meet these headline measures? To do so, requires cooperative effort with other agencies including Permitting Services, Procurement, and Dept of Planning.</p> <p>When asked about the County's commitment to meet TMDLs, Mr. Hoyt replied that the County would work to establish a baseline inventory of programs and projects, then milestones for implementation, and planning for long-term impacts. The TMDL efforts would be key elements under the MS4 permit and would need to be integrated with the Water Resources Element requirements. He encouraged the Water Quality Advisory Group to participate in the development of the implementation plan.</p> <p>He noted that Trash would be the first parameter for which an implementation plan is developed. He mentioned the importance of public education for reducing trash and water pollution, particularly to get school children involved. Jill Coutts and Kay Fulcomer commented that in their experiences as teachers by high school, many young people seemed to have lost their recognition of environmental and water quality issues. An important component of effective environmental education will be assuring the adoption of a long-term stewardship ethic.</p> <p>Mike Smith stated that it was important to create a connection by subwatershed in the County. One approach would include creek-specific storm drain markers. Daphne Pee asked if any data had been collected to show that these types of outreach programs resulted in behaviors that reduced pollutants entering the storm drain system. Ms. Curtis replied that she was not aware of any surveys conducted in areas where storm drain marking had been conducted.</p> <p>The WQAG then spent some time discussing recent surveys in the region on attitudes toward pollution and actions to prevent it. The Executive had conducted a countywide survey on resident priorities and issues at the end of 2007; the DEP had conducted a survey on environmental issues just after the Executive's survey; and the Alice Ferguson Foundation using funds contributed by Montgomery County and a number of other local jurisdictions, had completed a survey on trash attitudes. Miss Curtis agreed to forward results from these surveys to the WQAG for their use in evaluating techniques to assess public stewardship.</p> <p>Chair Silverman thanked Mr. Hoyt and Mr. Traber for their time in discussing the budget process and how the WQAG could provide input on funding programs. He mentioned that the their next meeting, the WQAG would develop comments to support the need for developing implementation plans to achieve TMDLs.</p>
<p>4. <i>Greg Drury, Wholeness for Humanity</i></p>	<p>It was about 9:10 p.m. at this point in the agenda. Chair Silverman asked Greg Drury if he could come to the September meeting to talk about the EcoTour activity. Mr. Drury noted that would be too late for WQAG participation. Chair Silverman then suggested that Mr. Drury provide a brief overview of the activity that he wanted WQAG participation.</p> <p>Mr. Drury distributed hard copies of his presentation (Attachment 2) about the EcoTour project which is promoting an awareness of Chesapeake Bay sustainability issues. The activities include bike tours to significant points in the participating community, which include Anacostia in DC, Annapolis, and St.</p>

# WQAG MEETING SUMMARY

## August 11, 2008

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Agenda Item	Action
	Michaels. Mr. Drury invited the WQAG members to participate in the upcoming DC 'Greenfest' with 'green' vendors plus a Town Hall Meeting to focus on what local government and citizens can do to make an environmental difference. The Greenfest is scheduled for the weekend of November 8th and 9th.
Next Meeting: September 8, 2008	Mr. Drury finished his briefing just before 9:30 p.m. It became necessary to close the meeting since County security policy is that all staff and guests must be out of the building by 9:30 p.m.

# WQAG MEETING SUMMARY

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## Water Quality Advisory Group

Suggested topics and questions from the committee for review and consideration at the  
August 11, 2008 meeting of WQAG

### Technical & Regulatory Committee

#### **1. Water Resources Element (WRE)**

The first element mandated in HB 1141 is the Water Resources Element (WRE). All counties and municipalities must adopt a Water Resources Element in their comprehensive plans by October 2009 or October 2010 (maximum extensions).

The WRE is intended to ensure the protection of state land and water resources; public health and safety; and meeting the smart growth policies.

The MG County Department of Park & Planning is the leading agency and aware of the requirements, the importance, and the development of WRE within the given time frame. Preliminary plan and milestones has been drafted based on the targeted date of October 2010.

The efficient development and successful implementation of WRE requires coordination and engagement of other agencies within the county, municipalities and at regional level.

#### **Questions for the Department of Park & Planning**

1. Does the Department have organized an Interagency Planning Workgroup including the DEP?
2. Has the Department evaluated the resource needs including technical staff, contractual services and budget needs?

#### **2. Development of County Tributary Implementation Plan**

To achieve the water quality standards Tributary Strategy Plans must be developed and implemented to move forward with local planning for TMDL. Implementation of the Tributary Strategy Plans are critical as we approach 2010 and the Statewide TMDL and its regulatory requirements.

In November 2007, the Maryland Bay Cabinet Agencies organized a meeting with Montgomery County local agencies. At this meeting State regulatory requirements for water resources protection, TMDL planning at the county and sub-basin level, and the ties of Tributary Implementation to potential TMDL were presented and discussed.

#### **Questions from Montgomery County participated Departments**

1. What coordinated follow up actions have been taken regarding the county sub-basins implementation plan to achieve watershed protection goals?
2. From \$25 million State FY 09 Trust Fund, about \$3.5 million is allocated to proposals from local governments on water quality improvement projects (Point and Non-Point Sources).  
Are MG County Departments and Commission informed of the available resources in current and future statewide Trust Fund and if so are you working in the development of proposals?  
(Fred)

### Question Relevant to Land Use

Although Montgomery County, especially near DC and along the I-270 corridor is already heavily urbanized, there are still large expanses of privately held land that are currently forested or in agricultural uses. My questions concern the master plan and/or zoning in the county with regards to this undeveloped land.

1. To what extent has the master plan/zoning been evaluated for its impacts on streams/rivers when planned land use change come to fruition?

2. Has any effort been made to shape or revise the master plan/zoning so as to protect the county's streams/rivers? If so, please elaborate what's been done and how it was guided.  
(Glenn)

3. Given County Executive Leggett's new Sustainability Working Group due to meet for the first time next month, it seems like there are several groups (Sustainability Working Group, Water Quality, Forestry, etc.) with complementary interests.

Meeting was adjourned at 9:30 p.m.

Next meeting: Sept. 8, 2008

Meeting summary prepared by Meo Curtis, DEP

# WQAG MEETING SUMMARY

## August 11, 2008

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So my question is two-fold: With respect to the County budget and environmental goals (a) is there an overall set of strategic goals and metrics that the County is focusing its spending on and since the answer to this helps direct the work of the advisory groups, I also wonder if; (b) is there a plan for how these various groups can best serve the County?

(Rick)

### **Technical and Regulatory**

When Bob Hoyt came to our December 10, 2007 meeting, just before he became a County employee officially, we asked about his priorities in water quality. He said, as I remember, that he wanted to meet TMDLs in County streams. This made a big impression on me because I had never heard a public servant say that before, at least in such a straightforward way. I have quoted him a number of times on this. The official minutes of the meeting provide a somewhat different account of the same thing. I know that this is an accurate because it was prepared by Meo and formally approved at the April meeting by the full Group. According to the minutes,

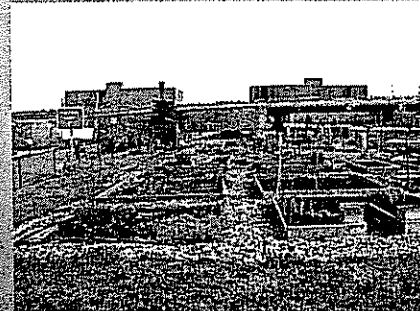
Mr. Hoyt was asked to identify what would be the top priority environmental issues for the County. He deferred being very specific until he had an opportunity to meet with staff and gain more familiarity with the County's programs. He did note as important: the re-issuance of the MS4 permit, dealing with global warming, preserving agricultural resources, and regional cooperation. He also mentioned that obtaining resources to support water quality improvement programs to meet TMDLs and Tributary Strategies reductions needs to be addressed.

So my question is this. Does the County Executive intend to meet TMDL goals? If not, what standard are you shooting for? This is a critical budgeting question. I know that the CE intends to comply with the permit. So to state the same question, do you think the permit should mandate TMDL goals? And in what way?

(Larry)

# Urban Locavores – Small Scale Changes

The word of year 2007 according to Oxford American Dictionary – expand meaning awareness



## 300 Urban Stakeholders

### Stakeholders include:

US Environmental Protection Agency

City of Annapolis

DC Government

Service for Peace

Friends of the Earth

League of American Bicyclists

Cultural Tourism DC

DC Downtown and Riverfront BIDs

University of the District of Columbia

Potomac Peddlers Touring Club – Bike Club

OTHERS: IPM Centers, CCLC, Audubon International

## Locavore – local awareness for sustenance

In a pre interview as presenter at the  
WFH Environmental Conference (at UCL) one  
thing stuck with me, she said (paraphrasing)  
“we throw millions of dollars at the Bay to  
clean it up and it doesn't make a bit of  
difference.” (Bay Report Card is still low)  
Our goal: raise awareness for no fee, using  
little money, everyone does just a little bit in  
their “back yard” – and make a big difference.

## Integrated Theme

Give Broad View of Urban Opportunities to  
go green

Teaching, Researching and Extending  
Beneficial Information to Residents

Working together to implement “Green”  
programs and projects



# Wholeness for Humanity

Disclaimer Not Technical

Bring many partners together from different venues to play nicely together

Federal and Local NGO / Government

Activist, Citizen, Intergenerational, Interfaith

*Wholeness for Humanity provides uplifting, practical and value-enhancing knowledge regarding health, environmental stewardship, social justice, and peace.*

*(WFH) is dedicated to bringing together corporate, government, faith-based and other community groups to promote common goals, create strategic partnerships, and serve as a learning portal through conferences, fairs, lectures, media, service events and celebrations.*

## Health Relationship all flows to the Bay through our lifestyle

Just that – Health is the cornerstone of these EcoTours

How do all these issues circle back and link to Environment, Social Justice and Peace?



# Local EcoTour

WFH EcoTour: Local municipality by foot, bike, hike and/or boat ride (free and by clean transportation) that features successful environmental projects to duplicate in another region and additionally may include, planting, beautification, social justice, peace, music, food, town hall meeting, environmental play, school visit, and one or more host partners.

# Urban Environment Successes

Take notes – blueprints back to municipality and recreate

Public Awareness

What Government can do

What you can do

## EcoTour-Community

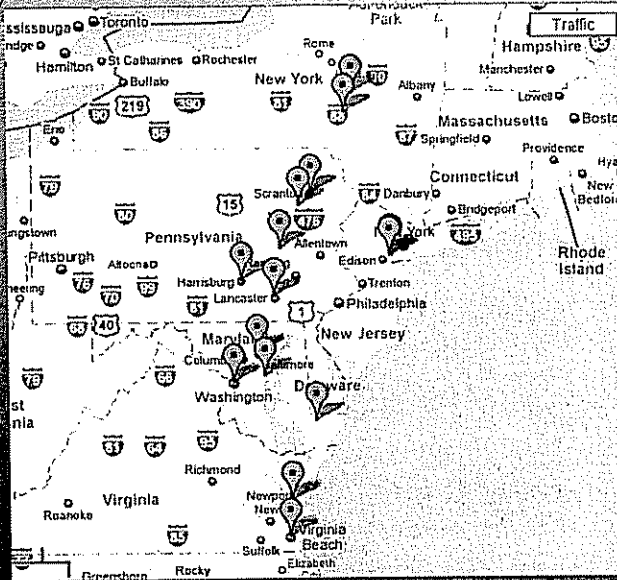
Anacostia EcoTour-Social Justice  
Annapolis EcoTour-Boaters  
Green Building EcoTour-Corporate/work  
Interfaith EcoTour-Faith based  
8 WARD EcoTour-Political  
Embassy EcoTour-International/cultural  
St. Michaels EcoTour-Biking  
CHESAPEAKE WATERSHED ECOTOUR  
Councilmember WARD/LGAC Eco&Toxic  
Tours

## Scorecard: Outreach, Education, Quality Awareness, Results of Programs

Green Landscaping  
Clean Transportation  
Energy Efficiency and Conservation  
Eating Green

# CHESAPEAKE WATERSHED ECOTOURS

Includes developing similar local EcoTours as those above in each municipality

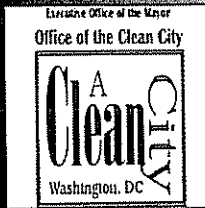


## 700 mile Chesapeake Watershed EcoTour Target Areas:

Cooperstown, NY  
Oneonta, NY  
Scranton, PA  
Wilkes-Barre, PA  
Hazelton, NJ  
Pottsville, PA  
Harrisburg, PA

- Lancaster, PA
- Baltimore, MD
- Washington, DC
- Annapolis, MD
- Salisbury, MD
- Cape Charles, VA
- Virginia Beach, VA





## 8 WARD EcoTour

Model for Watershed EcoTour Program

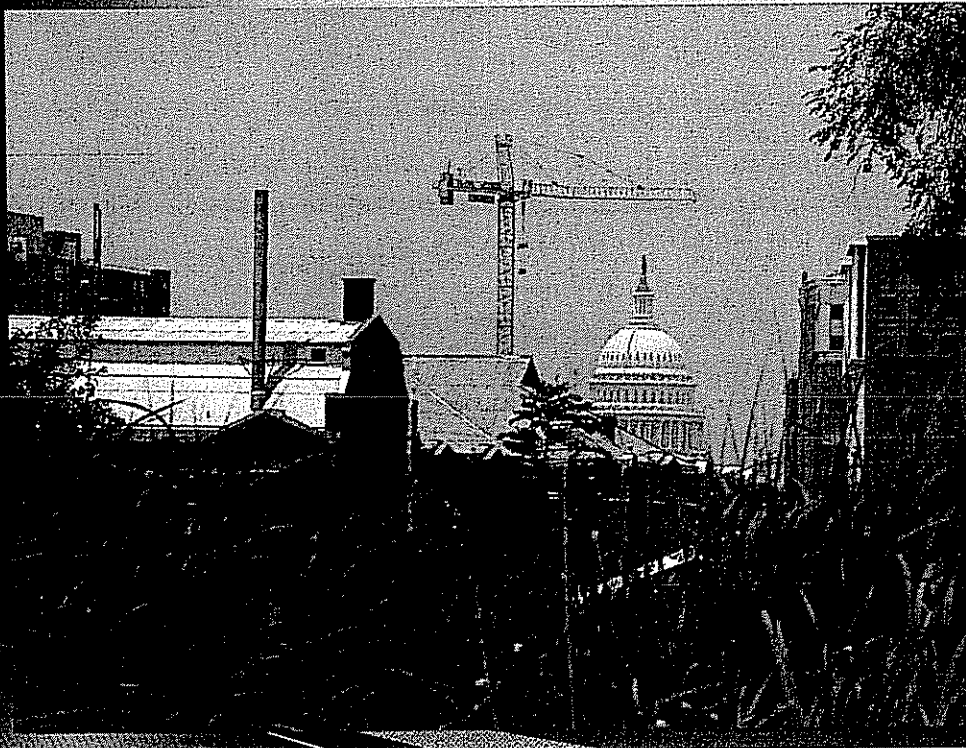
Long ride concurrent Clean Busses and 40

Bikers for 40 miles (hard ride)

8 EcoActive Stops with guides

Involve Town Hall Meeting, Intergenerational  
Educational Play, Group Lunch, Networking,  
SAG Vehicles/Bike Mechanics, etc

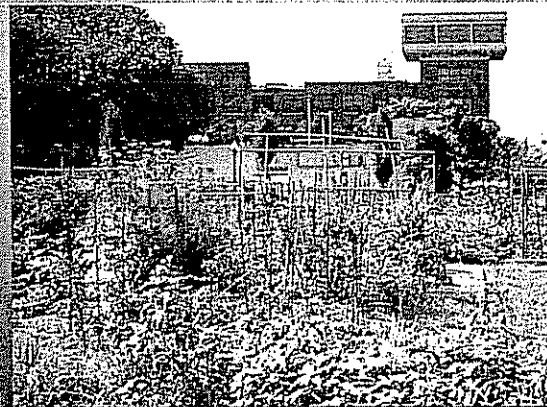
## Example of EcoTour in DC



# Anacostia EcoTour

US Department of  
Transportation  
Green Roof

► Virginia Ave  
Community Garden



## Sample Fact Sheet – US DOT Green Roof

**Project Name:** U.S. Department of Transportation  
**Year:** 2007  
**Owner:** JBG Properties  
**Location:** Washington, DC, USA  
**Building Type:** Municipal/Government  
**Greenroof Type:** Extensive  
**Greenroof System:** Single Source Provider  
**Roof Size:** 69000 sq.ft.  
**Roof Slope:** 1.5%  
**Access:** Accessible, Private  
**Submitted by:** Wayne Mills  
**Designers/Manufacturers of Record:**  
**Plant Supplier:** Wayne's Wholesale Nursery  
**Architects:** Corush, Sunderland, & Wright  
**Plant Installation:** Davey Tree Co.  
**Soil Supplier:** JK Enterprise Landscape Supply

- New, Central U.S. Government building
- This project is a landmark green roof installation for the U.S. Department of Transportation Headquarters located in Southeast Washington, D.C. The green roof is a 69,000 sq. ft. extensive green roof system. The plants were installed in 2007 and are now thriving. The plants are a mix of Sedum, Scaevola, and other low-growing, drought-tolerant species. The plants are a mix of Sedum, Scaevola, and other low-growing, drought-tolerant species.
- Sedum spectabile 'Autumn Fire'
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The new Department of Transportation Headquarters facility is located near the Navy Yard in Southeast Washington D.C.

# What CES programs apply?

Virginia Ave [SE] Community Garden - Extremely local and cheap food; soil nutrient enhancement.

Uses freeway right-of-way space. Other comm. gardens sometimes use vacant building lots. In these cases, the garden adds helpful nutrients to the soil and can help control erosion.

Neighborhood grown produce helps:

Create more consumer control over the produce sold in stores,

Reduces transportation costs and pollution of market grown produce,

Gives urban low income families the skills and confidence to grow produce in their own yard,

Saves the resident money, gives them outdoor exercise, increases appreciation of Nature.

## Eastern Market



## ► Judy's Solar Home





# What CES programs are available?

**Eastern Market** Bringing the rural economy into the city

Local and regional foods by local farmers. Have a fresh tomato.

**Judy's Solar House** Home alterations to make it more energy efficient

Solar panels on roof [hidden from street, hence no problem for a historical area]

A number of salvaged materials used on the interior  
Energy efficient kitchen appliances installed; energy efficient heating system.

Tankless hot water heater

RiverSmart Home  
WARD 6

► Kingman Community Center



# What CES programs apply?

Ward 6 RiverSmart Home Modifications to reduce water runoff. Very important in cities.

- \*rain barrels to collect rain runoff from the roof
- \*loose brick patio area = allows the rain the percolate into the ground easier [less runoff]
- \*plants and grass kept healthy to help hold rain water.

Kingman [and Heritage] Island Nature haven in the inner city

- \*40 acre and 5 acre area created in 1916 via dredging of the river
- \*many uses proposed for it over the years, including an airstrip and an amusement park
- \*Current plan: Park, wildlife habitat, trails, and environmental education center

## Hydrogen Fueling Shell Station



## ► Lady Byrd Johnson Park





# What CES programs are available?

## Benning Road Bridge and Shell Hydrogen Station Alternative transportation modes

\*Renovated bridge is bike and pedestrian friendly

\*Only pollution-free fueling [hydrogen] station in the metro area. Go fill up

\*Access point to Kingman Is. including Langston golf course

## Marvin Gaye Park

## ► Anacostia Park Urban Tree House



# What CES programs are in place?

Marvin Gaye and Lady Bird Parks - A ribbon of green in urban Anacostia's ward 8

- \*Part of a linear park system running into the Anacostia river

- \*includes an extended bike path connecting many parts of Anacostia

- \*Major upgrading to make it: cleaner, safer, and linked to other green spots

Poplar Point

► Nationals Stadium



# What CES programs are in the works?

**Poplar Point** – on the Anacostia River east of the city center

\*110 acres – now in grass and woods being owned by the Fed. Gov't to DC gov't

\*Proposal is to develop about 70 acres with 40 acres as an 'urban park'. Some want no development

**Baseball Stadium/Park** – A newly constructed 'green' facility seeking LEED certification

\*underground water filtration system

\*green roof; \*drought resistant plants [conserving water usage]

\*energy efficient stadium lights.

\*many regional materials [less transportation costs] and many recycled materials

\*accessible by public transport; parking for car pools and fuel efficient cars

## Upcoming Events

Anacostia ET (15 Miles) – Sept 20<sup>th</sup> 9 AM – 2 PM

Interfaith ET (7 Miles) – Sept 21<sup>st</sup> 2 – 4:30 PM

8 WARD ET (40 Miles) – Sept 24<sup>th</sup> 8 AM – 1 PM

**GREENFEST dc - NOVEMBER 8-9, 2008**

DC Convention Center

40 PERSON PAVILION

250 PERSON ROOM

• TOWN HALL MEETING

• Play – "Whatever Happened to the Dead Zone (of the Chesapeake Bay)"

## Summation - Spiritual Consequences

"Our personal consumer choices have ecological, social, and spiritual consequences. It is time to re-examine some of our deeply held notions that underlie our lifestyles."

David Suzuki – science broadcaster and environmental activist.

Integrity, do what's right for Humanity – if you contribute to future generations do you benefit?



# WQAG MEETING SUMMARY

October 6, 2008

7:00 p.m.– 9:00 p.m.

Member and affiliation	Present		Others in attendance and affiliation
	Yes	No	
Ed Brandt, public-at-large	✓		Rachel Rosenbaum, student
Jill Coutts, scientific/academic	✓		
Rick Ducey, business	✓		
Kay Fulcomer, public-at-large	✓		
Erica Goldman	✓		
Scott Kauff, public-at-large	✓		
Glenn Moglen, scientific/academic* resigned in September		✓	
Daphne Pee, public-at-large	✓		
David Plummer, agricultural		✓	
Dusty Rood, Vice-Chair, business	✓		
Fred Samadani, agricultural	✓		
Larry Silverman, Chair, environmental	✓		
Mike Smith, environmental	✓		
Tanya Spano, environmental	✓		
Eileen Straughan, business	✓		
Martin Chandler, WSSC	✓		
Meo Curtis, DEP	✓		
Doug Redmond, MNCPPC	✓		

**NOTE:** *there was no WQAG meeting in September.*

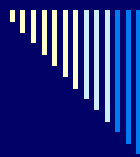
Agenda Item	Action
1. Welcome, approval of minutes, and draft agenda <i>Chair Silverman</i>	<p>Chair Silverman requested that the agenda be modified to add consideration of the resolution to request that Montgomery County Public Schools be added as a member of the Water Quality Advisory Group. He wanted to make sure that the WQAG acted this month so that the action could be added to the WQAG activities for the year. The resolution had been distributed via e-mail in the afternoon prior to the meeting.</p> <p>He noted that the Annual Report should be completed before the annual meeting with the Executive in January. Since the WQAG did not meet in December, he wanted the WQAG to focus its November meeting on drafting the report and on the work plan for the next year.</p> <p><b><i>Due to lack of a quorum, approval of the minutes was deferred.</i></b></p>
2. Healthy and Sustainable Communities. <i>Mark Symborski, MNCPPC</i>	<p>Mark Symborski provided an update on the Healthy and Sustainable Communities initiative led by MNCPPC. The Clean Water indicators represent stream communities and water quality standards. One indicator is the percentage of subwatersheds in good and excellent conditions and the second is that of nutrients to meet the Chesapeake Bay model goals.</p> <p>Work is still proceeding on developing the story behind these trends, including the four factors and potential actions and strategies. These will be coordinated with land use management and the County's Annual Growth Policy developed by MNCPPC, the regulatory changes for stormwater management--led by Department of Permitting Services, links with other state and local programs (water resources element, county state, MS4 permit), and considered by the sustainability working group effort led by DEP.</p> <p>Chair Silverman asked Dusty Rood Vice-Chair and member of the WQAG Land Use Committee for their recommendations on these as the most appropriate indicators for tracking water quality sustainability. <b><i>Mr. Rood indicated that the Committee would report at the next meeting.</i></b></p>

# WQAG MEETING SUMMARY

## October 6, 2008

*NOTE: there was no WQAG meeting in September.*

Agenda Item	Action
3. Tentative Determination Stormwater Permit, Meo Curtis, Stormwater Permit Coordinator, MCDEP	<p>Meo Curtis presented a summary on the County's stormwater permit program, including accomplishments under the previous two permits and the new conditions proposed under the third generation permit. The presentation is included as an attachment to this summary. The WQAG spent significant time discussing the implications of the new conditions, particularly the acceleration of watershed restoration. The DEP had identified that \$75 million had been spent over six years to comply with the previous round permit conditions and achieve about 5% impervious cover goal. There is a planned \$25 million over 5 years in CIP funding for project design and construction. The DEP has been very successful in leveraging state and federal grant funding, but the competition for those funds is increasing.</p> <p>Ms. Curtis informed the WQAG that a public hearing had been scheduled for Wednesday November 19. <b><i>Eileen Straughan of the Technical and Regulatory Committee volunteered to arrange a conference call among committee members for additional consideration of the permit conditions and funding needs.</i></b> The Committee will report back to the full WQAG at the November meeting.</p>
4. Links to other environmental benefits, ALL	The WQAG then spent time in an open discussion about how to link initiatives to improve water quality with those for other environmental benefits. Items mentioned included: the other sustainability indicators, LEED (which focuses on energy and water conservation, not water quality), and alternative technologies for broader scale County use like LED traffic lights and electric meters.
5. Resolution, Chair Silverman	It was now about 9:10 p.m. Chair Silverman requested the WQAG to consider the resolution to request the Executive to add MCPS as a member of the WQAG. He asked if there were a motion to adopt. Scott Kauff made the motion and Tanya Spano seconded the motion. The draft resolution is attached. There was no opposition to the Chair's request.
Next Meeting: Monday November 10, 2008	



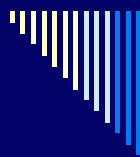
# Montgomery County NPDES MS4 Permit

Presentation to Water Quality Advisory Group  
October 6, 2008

Meosotis Curtis  
Montgomery County Department of Environmental Protection



1

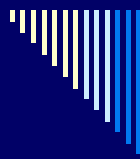


## Presentation Format

- ☐ Background
  - Permit elements
  - Accomplishments
- ☐ New Permit Conditions
- ☐ Questions
  - Development and redevelopment
  - Size and cost of the County's stormwater program

October 6, 2008

2



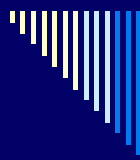
## Montgomery County, MD

- ❑ 500 sq. miles; 950,000 residents
- ❑ about 12% impervious overall
- ❑ Second only to Baltimore City in average people per square mile
- ❑ 85% of land zoned for development has already been developed
- ❑ Executive Branch has implementation responsibility
- ❑ Two bi-county, state-commissioned agencies
  - *Maryland National Capital Park and Planning Commission*
  - *Washington Suburban Sanitary Commission-water and sewer infrastructure*



October 6, 2008

3



## Municipal Separate Storm Sewer System (MS4) Permit

- ❑ First issued by Maryland Department of the Environment to Montgomery County in 1996
- ❑ Five-year permit term
- ❑ Applies to County and co-permittees
  - Does not include the cities of Gaithersburg, Rockville, and Takoma Park
  - Does not cover lands under the control of State (including M-NCPPC and WSSC) or Federal agencies.
- ❑ Third round re-issuance due in July 2006
- ❑ MDE worked with regional environmental groups since 2005 on Permit changes

October 6, 2008

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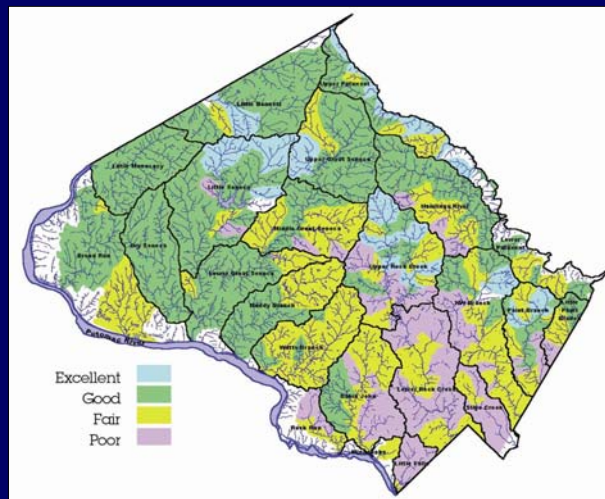
# Accomplishments

- Source Identification inventories and GIS mapping
- Discharge Characterization
  - Chemical, biological, and physical stream responses
  - Maryland Stormwater Design Manual
- Management Programs
  - Sediment and erosion control and stormwater management
  - Pollution Prevention at County facilities
  - Public Education and Stewardship
  - Illicit Discharge and Illegal Connections
- Watershed Restoration
  - Assessments, inventories, enhanced and new stormwater management, stream restoration
- Funding-establishment of Water Quality Protection Charge

October 6, 2008

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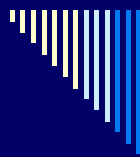
# Stream Resource Conditions



*There are over 1,500 miles of streams in Montgomery County*

October 6, 2008

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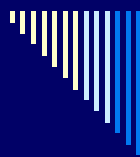


## Public Outreach

- Rainscapes (voluntary LID practices)
  - workshops, pilot projects, web site
- Public retrofit and restoration Projects
  - public meetings, field visits, fact sheets
- Water Quality Advisory Group-DEP
- Enforcement
  - *Hotline, illegal dumping signs, fact sheets*
- Solid Waste
  - *recycling, grasscycling, composting*
- Keep Montgomery County Beautiful Task Force-Public Works
  - Grants for local site beautification, Adopt-A-Road, Storm Drain Marking

October 6, 2008

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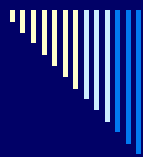


## New Conditions

- Addition of Montgomery County Public Schools as co-permittee
- Comply with changes in Maryland Stormwater Design Manual
  - Promoting environmental site design (ESD) and low impact design (LID) techniques
- Trash and litter reduction strategy—Anacostia first
- Watershed restoration goal
  - Impervious area not controlled to the maximum extent practicable (MEP)
- Total Maximum Daily Loads (TMDLs)
- Public comment and input process required for trash and litter reduction strategy and TMDL implementation plans

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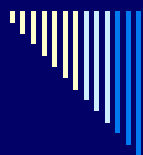


## Questions about re-issued permit conditions?

- Development and redevelopment
  - Identify and modify ordinances and codes to remove impediments and promote ESD/LID to the MEP
- Size and cost of the County's stormwater program
  - Increase LID retrofits
  - Develop and implement Trash and Litter Management Strategy
  - Increase Watershed Restoration
  - Achieve Wasteload Allocations (WLAs) of Total Maximum Daily Loads

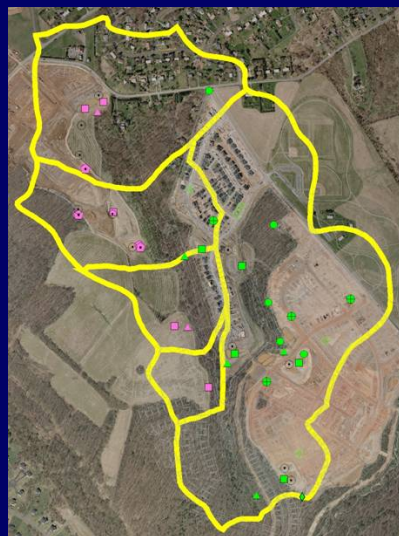
October 6, 2008

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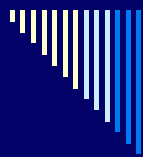
## Stormwater Management: Increase LID

- This example from recent concentrated urban development
- Increased use of non-structural approaches including runoff disconnect, grassed swales, and bioretention
- Significant increase in number of facilities that need to be maintained

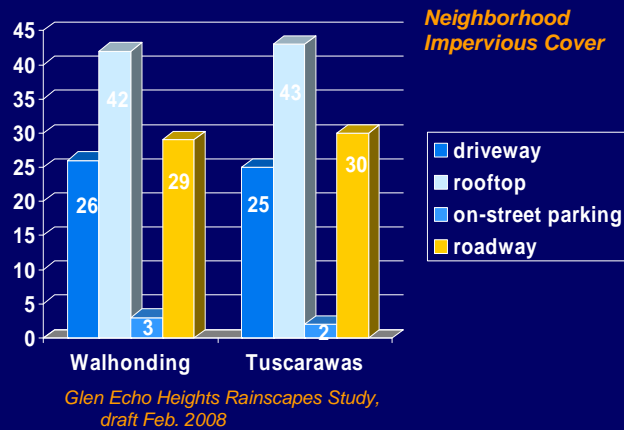


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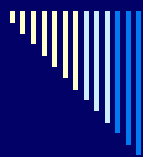


## Need to retrofit residential neighborhoods



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## *Costs- Trash and Litter Management*

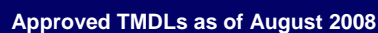
- Currently spend approximately \$4.4 million per year for recycling, household hazardous waste management, illegal dumping, right-of-way clean ups
- Possible augmentation of existing programs
  - Additional street sweeping (currently \$340K/yr)
  - More routine storm drain inlet maintenance (currently \$2m/yr collected in storm drain fees)
  - Increased illegal dumping enforcement (currently \$300K/yr)
- Public notice and 30-day comment period

October 6, 2008

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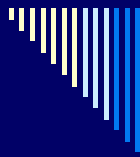
- October 6, 2008

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October 6, 2008

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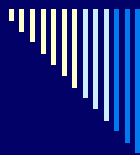


## Next Steps

- Tentative Determination notice on 9/10 and 9/17/08
- Public Hearing request by 10/7/08
- Written Comments by 10/17/08
- Tentative: Public Hearing in third week of November
- Final Determination notice
  - Possible Contested Case Hearing

October 6, 2008

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## *Questions?*

- Link to Montgomery County Annual Reports
  - <http://www.montgomerycountymd.gov/deptmpl.asp?url=/content/dep/NPDES/home.asp>
- Link to MDE web page information
  - <http://www/mde.state.mdus/PressReleases/1132.html>

October 6, 2008

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# WQAG MEETING SUMMARY

## October 6, 2008

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### **DRAFT resolution to add Public Schools to the Water Quality Advisory Group**

WHEREAS, The Water Quality Advisory Group (WQAG) was established by County ordinance in part to enhance the public participation element in connection with the National Pollution Discharge Elimination System (NPDES) Stormwater Permit;

AND WHEREAS, The ordinance establishing the WQAG mandates participation by certain public agencies with responsibilities relevant to permit compliance, including the Washington Suburban Sanitary Commission, the County Department of Environmental Protection, and the Maryland Nation Capital Parks and Planning Commission;

AND WHEREAS, The Maryland Department of Environment is about to issue a new NPDES Stormwater Permit which explicitly recognizes the role of the Montgomery County Public Schools in permit compliance;

AND WHEREAS, The WQAG's deliberations have been greatly enhanced by members who are also teachers in the MCPS system;

BUT WHEREAS, The MCPS has never been officially represented on the WQAG, or participated in WQAG deliberations;

AND WHEREAS, the WQAG believes that the MCPS is a major stakeholder with a critical role to play in permit compliance, both as the owner of lands and buildings which impact the stormwater problem and as educators of the children of Montgomery County;

AND WHEREAS, The members of the WQAG believe that the WQAG would better carry out its duty to make recommendations for improving water quality in the County if a representative of the MCPS participated in a regular way in WQAG deliberations;

NOW THEREFOR BE IT RESOLVED, That the County Executive and County Council be and hereby are urged to amend the ordinance creating the WQAG to add regular participation by an appropriate representative of MCPS.

Adopted by unanimous vote of the WQAG on October 6, 2008 at a regular meeting of the WQAG.

Attested to by:

Larry J. Silverman  
Chairman

Dusty Rood  
Vice Chairman

# WQAG MEETING SUMMARY

## November 10, 2008

7:00 p.m.– 9:00 p.m.

Member and affiliation	Present		Others in attendance and affiliation
	Yes	No	
Ed Brandt, public-at-large	✓		
Jill Coutts, scientific/academic	✓		
Rick Ducey, business	✓		
Kay Fulcomer, public-at-large	✓		
Erica Goldman	✓		
Scott Kauff, public-at-large	✓		
Glenn Moglen, scientific/academic* resigned in September		✓	
Daphne Pee, public-at-large	✓		
David Plummer, agricultural	✓		
Dusty Rood, Vice-Chair, business	✓		
Fred Samadani, agricultural	✓		
Larry Silverman, Chair, environmental	✓		
Mike Smith, environmental	✓		
Tanya Spano, environmental		✓	
Eileen Straughan, business	✓		
Martin Chandler, WSSC	✓		
Meo Curtis, DEP	✓		
Doug Redmond, MNCPPC	✓		

Agenda Item	Action
1. Welcome, approval of minutes, and draft agenda <i>Chair Silverman</i>	<p>Chair Silverman welcomed all and asked for review and approval of the minutes and draft agenda. Several members noted spelling errors in the summaries for previous month's which needed correction. Chair Silverman requested an addition to the October summary to acknowledge the motion and second to support the motion on the resolution to add MCPS to the WQAG.</p> <p>The summaries were approved, pending the correction of typographical errors and modifying the October summary as requested by Chair Silverman.</p>
2. NPDES MS4 Permit Compliance Costs <i>Eileen Straughan, Regulatory and Technical Committee.</i>	<p>Ms. Straughan provided the results from a conference call of the Regulatory and Technical Committee on resources required for permit compliance. Much of the discussion during that call focused on Meo Curtis' presentation on the Third Generation Stormwater Permit for the County.</p> <p>The DEP is currently funding the Permit related programs from a variety of funding sources, including the water quality protection charge, general obligation bonds, grants, general funds, other non-dedicated funds, the Solid Waste Enterprise Fund, and the DPS Enterprise Fund. Meeting the enhanced and new requirements in the proposed permit will require significant additional funding.</p> <p>Scott Kauff noted that it looked like a majority of County taxpayers would approve the so-called 'Ficker Amendment' (County Question B) which would require unanimous Council approval for any tax increases beyond the Charter limit. Existing County Code requires approval by 7 of the 9 councilmembers. This resistance to increasing taxes could carry over to voting for increased fees to cover other county provided services.</p> <p>The WQAG then discussed various approaches to generate additional funding, including expansion of the Water Quality Protection Charge, creation of a stormwater enterprise fund, discounts for runoff disconnects, a tiered system with a base fee that all property owners would pay to cover administrative costs of the program and then an additional fee that would be based on the calculated runoff impacts from that property.</p>



# WQAG MEETING SUMMARY

## November 10, 2008

	Chair Silverman suggested that the Committee should develop a summary of these comments including 1) that a major increase in funding would be needed to comply with the next Permit; that there is a need to identify funding sources and follow improved technology and that the general public must be convinced of the need to do so. This should be done in consideration for the next meeting and for inclusions in the annual report.
3. Healthy and Sustainable Communities <i>Dusty Rood, Vice-Chair WQAG, Land Use Committee:</i>	Vice-Chair Rood led the discussion about the County's water quality goals and indicators for the Healthy and Sustainable Communities efforts. Much of the discussion focused on trying to identify what the specific water quality goals were. Ed Brandt felt that people needed something in terms of water quality that they can relate to--something that is affecting them. Kay Fulcomer pointed out that he indicators need to relate to what people care about. Mike Smith noted that protecting human health is a high priority to most people and that high bacteria levels were commonly found in stormwater in County streams and therefore might be a more logical indicator than nutrients. Vice-Chair Rood agreed to put some points together for consideration by the Committee and then bring their recommendations back to the next WQAG meeting.
4. Building Support for the Permit. <i>Daphne Pee, Outreach Committee:</i>	In Tanya Spano's absence, Ms. Pee led the discussion for the Outreach Committee. The Discussion focused on the need to find a high-level advocate to support the increased funding to meet permit conditions. While Executive Leggett showed support in the press release that accompanied the Tentative Determination publication, he was being faced with a very difficult fiscal situation. While environmental measures that provide for energy and water conservation also reduce costs, it is more difficult to show such savings on an individual basis for stormwater management. Ms. Pee noted that it is important to identify goals and audience in order to determine an effective outreach program. Chair Silverman noted that the need for the target to recognize the utility of changing behavior in terms of some sort of long term individual benefit. There was subsequently much discussion on what the goal, message, and benefits that might be expected from an outreach program for stormwater. There was agreement that source control and how to sell the need for source control as a means to keep treatment and maintenance costs down. The Committee decided to have a meeting or conference call to go over points raised during this discussion and craft a set of recommendations to present at the next meeting.
5. Drafting Recommendations <i>Chair Silverman</i>	Chair Silverman asked that Ms. Pee lead the Outreach Committee efforts for writing their section for the annual report; that Ms. Straughan write the section for the Regulatory and Technical Committee, and that Rick Ducey draft the Land Use Committee section.
6. Other Items	<p>Ms. Curtis mentioned that Ted Graham at the Council of Governments had obtained grant money to conduct a workshop on using Low Impact Development in redevelopment in the Anacostia. He was willing to present to the WQAG and solicit their support for County agency staff input for the workshop. The WQAG agreed to have a non-mandatory meeting in December to hear a presentation from Mr. Graham on the proposed workshop. The meeting would also be an opportunity for the Committees to work further on their recommendations prior to the January 2009 meeting which Chair Silverman had suggested for final drafting of the content of the Annual Report.</p> <p>The WQAG also considered their calendar for the next year and agreed to have a meeting in August to discuss agency budget implications and no meeting in December.</p>
Next Meeting: Monday December 8 (optional meeting)	

# WQAG MEETING SUMMARY

## December 8, 2008

7:00 p.m.– 9:00 p.m.

Member and affiliation	Present		Others in attendance and affiliation
	Yes	No	
Ed Brandt, public-at-large	✓		Ted Graham, MWCOG
Jill Coutts, scientific/academic		✓	Mark Symborski, MNCPPC-Planning
Rick Ducey, business	✓		
Kay Fulcomer, public-at-large	✓		
Erica Goldman	✓		
Scott Kauff, public-at-large		✓	
Glenn Moglen, scientific/academic* resigned in September			
Daphne Pee, public-at-large	✓		
David Plummer, agricultural	✓		
Dusty Rood, Vice-Chair, business	✓		
Fred Samadani, agricultural		✓	
Larry Silverman, Chair, environmental	✓		
Mike Smith, environmental	✓		
Tanya Spano, environmental	✓		
Eileen Straughan, business		✓	
Martin Chandler, WSSC		✓	
Meo Curtis, DEP	✓		
Doug Redmond, MNCPPC	✓		

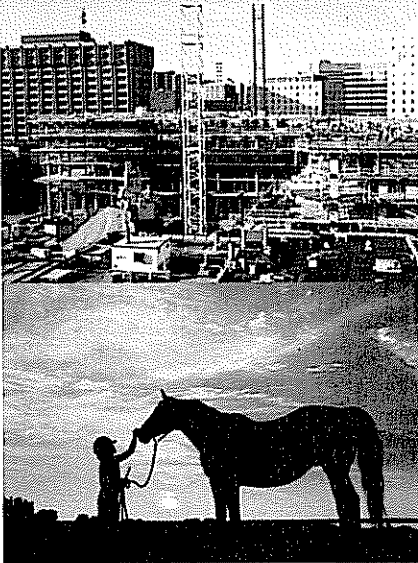
Agenda Item	Major Points
1. Welcome and draft agenda <i>Chair Silverman</i>	<p><i>Note that this is an optional meeting and therefore no votes for action were made.</i></p> <p>Chair Silverman welcomed all and introduced Ted Graham, MWCOG, invited speaker.</p> <p>He and a number of members had attended the MNCPPC 'Growing Smarter' public forum on December 6. Comments were generally complimentary and supportive of the ongoing effort. A question was raised about how some of the issues brought up at the forum could be reflected in the County's headline measures for Sustainability.</p>
2. Redevelopment in the Anacostia. <i>Ted Graham, MWCOG</i>	<p>Ted Graham, MWCOG, provided a hand-out and presentation on an upcoming workshop on redevelopment in the Anacostia. A major goal of the workshop is to increase involvement of the development community in the Anacostia restoration effort. The workshop will also focus on costs and effectiveness of tools used during redevelopment to reduce environmental impacts and also the importance of having federal property-owners fully engaged. He noted the need for DEP support and need for the Executive Branch agencies to work with the Planning agency for success in Anacostia redevelopment and environmental improvements. He asked the WQAG to provide comments and contacts to help meet these workshop goals.</p>
3. Annual Report. <i>Erica Goldman, Regulatory and Technical Committee.</i>	<p>Erica Goldman introduced the discussion about the annual report, focusing on the efforts of the Regulatory and Technical Committee. She noted the need to identify cost-savings and multiple environmental benefits from any best management practices and policies used to meet regulatory requirements.</p> <p>Concerns were raised during subsequent discussion about the need for more funding and the importance that DEP pursue any available federal funding. There had been requests from many for lists of projects that were 'ready to go within 90 days' to take advantage of the anticipated federal economic stimulus package funds to support infrastructure construction needs.</p> <p>Meo Curtis raised a question whether any significant part of this funding would be available for other than bridge, roads, transportation, and wastewater needs. She</p>

# WQAG MEETING SUMMARY

## December 8, 2008

	<p>noted that DEP had a well-developed inventory and schedule of stormwater management projects and retrofits that they could draw from.</p> <p>Chair Silverman brought up that when considering implementation costs, there needs to be consideration of the environmental costs of taking no action. For example, the costs to WSSC for repairing or replacing infrastructure damaged by years of uncontrolled stormwater. He will contact WSSC and ask to have these costs estimates included in their presentation to the WQAG in January.</p>
4. Annual Report. <i>Daphne Pee, Outreach Committee</i>	Daphne noted that the Committee was not as far along as the Regulatory and Technical Committee in drafting a section for the Annual Report. However she felt that the report needed to emphasize the importance of leveraging watershed and other community groups to be involved in restoration, to identify a 'champion' to show public support for water quality benefits, and to find ways and indicators to provide strict evaluations of the effectiveness of outreach.
5. Annual Report. <i>Rick Ducey, Land Use</i>	<p>Chair Silverman asked Rick Ducey to take the lead in drafting this section. The focus should be on the Forest Conservation Law and also on identifying sustainability indicators for water quality protections and setting priorities for follow up.</p> <p>There was some discussion about WQAG members about using bacterial levels as sustainability indicators. The State has established regulatory limits for bacteria in three, predominantly urban County waterways. The source tracking work done had shown that typically one-third to less than one-third of the total coliform could be tracked to human or domestic pet sources, although the regulatory control levels were to reduce baseline concentrations by 85% to greater than 90%. Despite these exceedances of state standards, there have been no reports of human illness due to contact with contaminated stream water.</p>
6. Other Items:	Chair Silverman asked Kay Fulcomer and Jill Coutts (in absentia) to provide insights on the dual role of schools, that is as educators and as significant property-owners, and the MCPS relative roles and responsibilities. He mentioned that he had not heard yet about the WQAG request to add MCPS to the WQAG. This question should be asked at the annual meeting with the Executive, scheduled for 1/27/2009 at 8:30 p.m.
Addition of Montgomery County Public Schools	
Annual meeting with Executive, 1/27/2009 at 8:30 p.m.	Ms. Curtis noted that with the reorganization and addition of Solid Waste Services, there currently were seven Boards/Committees/Commissions (BCCs) within DEP. She was awaiting a response to an inquiry to the Executive's Office about how time would be allocated within the DEP meeting slot to accommodate all the BCCs.
2009 calendar	Ms. Curtis also asked all members to review the draft calendar for 2009 so that the meeting dates and times could be posted on the County's and DEP's web sites to meet the State and County's Open Meetings Acts. As in previous years, the meeting in October was moved to the third Monday to avoid conflict with the federal Columbus Holiday on the second Monday.
Next Meeting: Monday January 12	

# Condado de Montgomery....Desarrollando con más astucia



## conexiones

Conectando la gente a las escuelas, las tiendas, los parques, y el entretenimiento  
Proporcionando transporte público conveniente  
Asegurando caminos adecuados

## ambiente

Mejorando la calidad del aire en disminuyendo dependencia de los coches  
Promovando esfuerzos para preservar la Bahía de Chesapeake reduciendo la salida de agua  
Produciendo energía más cerca del hogar

## diseño

Construyendo vibrantes "streetscapes" que exhiben la vida cívica  
Estimulando edificios verdes que integran en sus alrededores  
Concentrando en espacios de acopio públicos dinámicos



## diversidad

Ofreciendo opciones de residencia que acomodan una agama de edades y necesidades familiar  
Desarrollando una mezcla de hogares, trabajos, barrios comercial, y lugares públicos dentro del alcance  
Atrayendo la gente de todas edades, ingresos y culturas

## ¿Qué importa más a usted?

Ensamble a los planificadores para lanzar nuestra "desarrollando con más astucia" iniciativa.

Pese a dentro de [www.growingsmartermontgomery.org](http://www.growingsmartermontgomery.org)

**O díganos lo que usted piensa en nuestros foros públicos**

7 p m – 9 p m Lunes, Noviembre 3: Marilyn J Praisner Biblioteca. Burtonsville

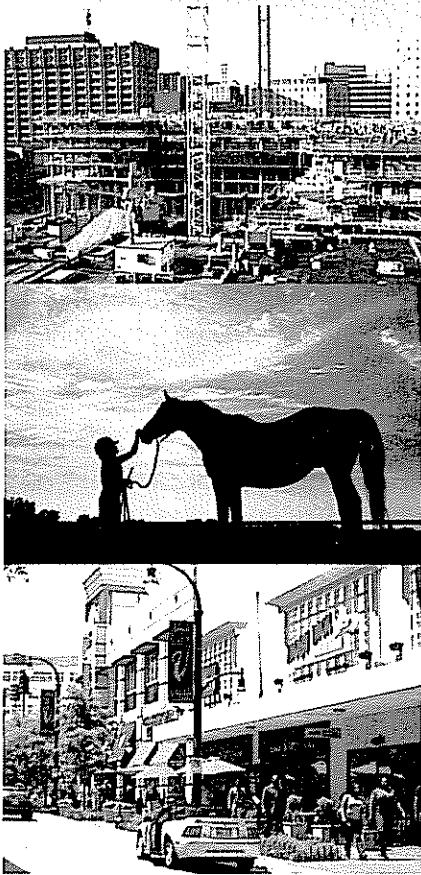
2 p m – 4 p m Sabado, Noviembre 8: Biblioteca de Germantown, Germantown

7 p m – 9 p m Lunes, Noviembre 10: Biblioteca de Quince Orchard. Gaithersburg

10 a m – noon Sabado, Diciembre 6: Jefaturas del Parque y del Planeamiento. Silver Spring



# Montgomery County...growing smarter



## COMMUNITY

Connecting people to schools, stores, parks & entertainment  
Providing convenient public transportation  
Ensuring adequate roads

## ENVIRONMENT

Improving air quality by lessening dependence on cars  
Advancing efforts to preserve the Chesapeake Bay by reducing runoff  
Generating energy closer to home

## DESIGN

Building vibrant streetscapes that showcase civic life  
Encouraging green buildings that integrate into their surroundings  
Focusing on dynamic public gathering spaces

## DIVERSITY

Offering housing choices that accommodate a range of ages and family needs  
Creating a mix of homes, jobs, shopping and public places within reach  
Attracting people of all ages, incomes and cultures

## What matters most to you?

Join planners as we launch our growing smarter initiative.

Weigh in at [www.growingsmartermontgomery.org](http://www.growingsmartermontgomery.org)

**Or tell us what you think at our public forums:**

7 p.m. - 9 p.m. Monday, Nov. 3: Marilyn J. Praisner Library, Burtonsville

2 p.m. - 4 p.m. Saturday, Nov. 8: Germantown Library, Germantown

7 p.m. - 9 p.m. Monday, Nov. 10: Quince Orchard Library, Gaithersburg

10 a.m. - noon Saturday, Dec. 6: Park and Planning Headquarters, Silver Spring

Smarter  
sustainable development  
design



## **DRAFT**

### **Workshop Concept**

#### **Promoting Redevelopment LID in the Anacostia Watershed**

**Updated: November 24, 2008**

**Introduction** – The current trend in urban stormwater management is to use Low Impact Development (LID) practices when and where feasible. According to EPA, LID is “*an approach to land development (or re-development) that works with nature to manage stormwater as close to its source as possible. LID employs principles such as preserving and recreating natural landscape features, minimizing effective imperviousness to create functional and appealing site drainage that treat stormwater as a resource rather than a waste product.*”

The Anacostia watershed is largely developed and most of the development taking place is redevelopment. The use of LID in redevelopment circumstances has its unique set of challenges. Accordingly, the focus of the proposed workshop is on “Redevelopment LID” [R-LID for short] which is considered particularly important for the restoration of the Anacostia watershed.

**When and Where** - The two-day workshop, “Promoting Redevelopment LID in the Anacostia Watershed,” will take place on Thursday and Friday, March 26 and 27, 2009, at the Metropolitan Washington Council of Governments (COG) offices.

**Objective** – The objective of the workshop is to promote the use of Low Impact Development whenever redevelopment occurs in the Anacostia watershed.

The workshop is designed to help shape federal, state, county, municipal, private sector and non-governmental organization programs, policies and practices in pursuit of this objective. It is also intended to foster closer ties between the Anacostia Restoration Partnership and the development community. Three distinct themes will be woven into the workshop:

- Technical Integrity (promoting what will work on the ground);
- Economic Feasibility (recognizing the importance of cost-effectiveness); and
- Acceptance (by public sector agencies, private sector practitioners and other stakeholders).

**Outcomes** – The two key outcomes of the workshop are:

- **Recommendations** for actions to help promote the use of R-LID; and
- **Enhanced ties** between the Anacostia Partnership and the development community.

**Preparation for the Workshop** –The preparation for the workshop will entail four distinct steps.

#### **Step 1 – Convene a Redevelopment Advisory Committee (October-November 2008)**

The first step is to recruit knowledgeable individuals willing to serve on a Redevelopment Advisory Committee [RAC]. The RAC will provide technical and outreach advice throughout all phases of planning for and conducting the workshop. RAC members will represent entities throughout the Anacostia watershed and will draw from the following:

- Developers (preferably from multiple product types: for example, shopping centers, single family homes, office buildings in dense, urban areas, etc.);
- Consultants to developers (site designers, engineers and landscape architects);
- Local government planners and regulators (site plan reviewers, land use planners and watershed managers);
- Institutional landowners/property managers (federal, state & local);
- Individuals with expertise in watershed planning, smart growth and green technologies (state and federal agencies, NGOs, universities);
- Community-based organizations (watershed organizations) and interested citizens.

**Step 2 – Prepare: (1) profiles of exemplary programs, policies and practices effective in promoting the use of R-LID; and (2) draft recommendations for consideration. (November 2008 – February 2009)**

**Profiles** - The profiles will provide key background information for the workshop itself. They will draw on interviews, surveys and literature reviews. They will be presented in “case study” format and are intended to provide participants with descriptors of programs, policies and practices demonstrably effective in promoting R-LID. These will emphasize exemplary programs locally and in other regions with comparable climatic conditions. They will be prepared well in advance of the workshop and will be posted on the workshop web site. Each of the case studies will follow a specific template to provide a consistent look and feel.

At a minimum, they will cover:

- The public sector (development regulators, watershed managers and land use planners);
- The private sector (developers, site designers and engineers); and
- NGOs, including watershed groups and environmental organizations and professional organizations.

**Draft Recommendations** – The members of the RAC and others involved in the planning for the workshop will be asked to prepare draft recommendations for consideration by the workshop participants. The recommendations will cover three aspects of promoting R-LID:

- Technical: What technology and LID practices work in a redevelopment context?
- Economic: What are the costs, capital and operating, and benefits of widespread use of LID?
- Acceptance: What education and outreach is needed to encourage the use of R-LID to stakeholders (e.g., developers, engineers, plan reviewers, community representatives)?

The draft recommendations, along with the profiles will be structured to facilitate developing the final recommendations at the workshop. They will be prepared well in advance of the workshop and will be posted on the workshop web site. It is expected that these will draw from or otherwise include:

- The “profiles” prepared specifically for the workshop;
- Recommendations prepared by Montgomery County’s Clean Water Task Force (April 2007);
- The DC “MS4 BMP Enhancement Package” (November 2007);
- Metrics to measure success in R-LID implementation;
- Actions to help better align the Maryland’s new stormwater regulations and MS4 permit requirements; and
- The “Core Environmental Site Design Principles” for stormwater management prepared by the Maryland Stormwater Consortium (February 2008).

### **Step 3 – Identify Likely Redevelopment Areas of the Anacostia Watershed (November 2008 – February 2009)**

This step (prepared well in advance of the workshop) is intended to ensure that the workshop focuses on concrete examples and not just abstract principles. While not parcel-specific, it will identify those areas of the Anacostia watershed that agency land use planners anticipate are likely to undergo redevelopment and thus where R-LID activity will be most critical. This step will include the type and scale of redevelopment expected.

### **Step 4 – Establish a Workshop Web Site (January 2009)**

This will be included in COG's Anacostia web site [www.anacostia.net]. It will be used to manage registration, and to provide access to material prepared for the workshop as well as links to related information.

**The Workshop** - The workshop is scheduled for March 26 & 27, 2009 in the Training Center on the 1<sup>st</sup> floor at COG. It will cover two-days and may include invited presenters from beyond the region. It is envisioned that the workshop will include:

- Presentation(s) related to the profiles of exemplary programs and draft recommendations, which will have been distributed in advance;
- An in-depth description of one or more exemplary programs;
- An overview of where redevelopment is likely to occur in the Anacostia watershed;
- An assessment of the compatibility between smart growth and R-LID;
- A discussion of the importance of R-LID as a component of watershed restoration; and
- The development of recommendations for action.

A preliminary agenda is attached.

**Outcomes and Follow-Up Actions** - Workshop proceedings will be prepared approximately one month after the workshop. This will include recommendations for action by governmental agencies, the private sector, NGOs and other stakeholders.

Subsequent follow-up will involve periodic progress reports to the Anacostia Partnership Steering Committee.



## **Straw Man Workshop Agenda**

**Day 1**  
**Thursday, March 26, 2009**  
**COG Training Center)**

- 8:30 – 9:30      Registration & Continental Breakfast**
- 9:30 – 9:40      Welcome & Introduction**  
Dave Robertson, COG Executive Director  
Steve Pattison, Steering Committee Chair;  
Dana Minerva, Partnership Executive Director
- 9:40 – 10:00      Overview of the Workshop**  
Presenters: COG Staff  
Focus: Review of Agenda, Materials, Format, Expected Outcomes; Exemplary Program Profiles; Draft Recommendations; Case Studies; Projections of Redevelopment Areas through 2030  
Time: 20 minutes
- 10:00 – 10:30      Keynote Speaker/Panel**  
Presenters: 1 speaker or 3 panelists  
Speaker Background: A single “name” speaker or perhaps ~2-4 planning directors.  
Focus: Visionary perspective on R-LID - Feasibility; Importance; Opportunities; Successes to Emulate  
Time: 30 minutes
- 10:30 – 11:30      Exemplary Program Panel**  
Presenters: 3 panelists  
Speaker Background: Local government, private sector, professional society or university.  
Focus: An important story to tell about an overall exemplary LID program or key program element that will help inform the workshop outcome.  
Time: 1 hour - 15 minutes each; 15 minutes Q&A
- 11:30 – 12:30      Technology & Economics**  
Presenters: 2 panelists  
Speaker Background: Expertise in state-of-the art aspects of LID, e.g., the LID Center, the Center for Watershed protection or the Chesapeake Stormwater Network  
Focus: The latest information on R-LID technology, effectiveness and cost; Applicability of LEED for Neighborhood Development; Illuminated by concrete examples  
Time: 1 hour – 20 minutes each; 2 minutes Q&A
- 12:30 – 1:15      Lunch**  
Box lunch  
Visit Exhibit/Display Area  
Networking
- 1:15 – 2:15      Regulators’ Perspective**  
Presenters: 3 panelists  
Speaker Background: One each from MD (state), MD (local) & DC.  
Focus: How state & local regulators view implementation of R-LID: feasibility; contrast to traditional stormwater controls; impediments. **Recommendations.**  
Time: 1 hour - 15 minutes each; 15 minutes Q&A

- 2:15 – 3:15      Developers' Perspective**  
Presenters: 3 panelists  
Speakers Background: A different but complementary aspect of the development community, such as area covered (DC, MD), engineering, site planning, marketing  
Focus: How developers view implementation of R-LID: feasibility; contrast to traditional stormwater controls; impediments. **Recommendations**  
Time: 1 hour - 15 minutes each; 15 minutes Q&A.
- 3:15 – 4:15      NGOs' Perspective**  
Presenters: 3 panelists  
Speakers Background: A different but complementary NGO advocating on behalf of R-LID, such as NRDC, Montgomery Stormwater Partnership, Anacostia Watershed Society)  
Focus: How NGO/advocacy organizations view implementation of R-LID: feasibility; contrast to traditional stormwater controls; impediments. **Recommendations.**  
Time: 1 hour - 15 minutes each; 15 minutes Q&A.
- 4:15 – 5:30      Networking Reception**  
Visit Exhibit/Display Area

**Day 2**  
**Friday, March 27, 2009; COG Training Center**

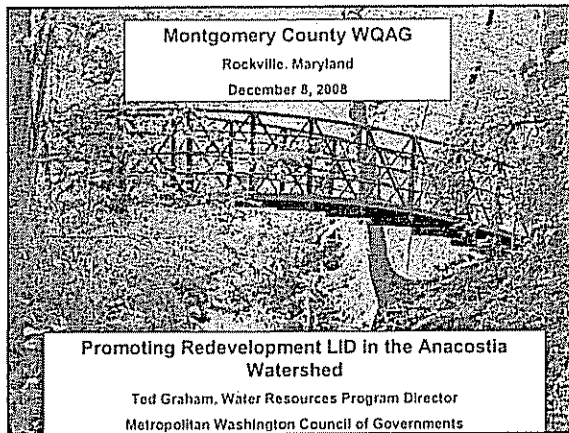
- 9:30 – 10:30      How Do Smart Growth and R-LID Work Together?**  
Presenters: 3 panelists  
Speakers Background: A diverse but complementary perspective on LID and smart growth practices and principles, including perhaps a development consultant, federal and state “smart growth” and/or planning offices, a university, a smart growth advocacy organization, such as 1000 Friends of Maryland and the Coalition for Smarter Growth  
Focus: One often hears the view that stormwater requirements can discourage “smart growth” redevelopment. This panel will explore whether there is a potential conflict between strong R-LID requirements and smart growth and how this can be addressed. **Recommendations.**  
Time: 1 hour - 15 minutes each; 15 minutes Q&A
- 10:30 – 11:15      Federal Landowners' Perspective**  
Presenters: 2 panelists  
Speakers Background: One from GSA; one from DOD.  
Focus: These panelists will address the unique federal presence and role in the Anacostia watershed and opportunities for implementation of R-LID. **Recommendations**  
Time: 45 minutes - 15 minutes each; 15 minutes Q&A
- 11:15 – 12:15      Assessing the “Acceptance” of R-LID**  
Presenters: 3 panelists  
Speakers Background: A diverse yet complementary perspective to assess the acceptability of R-LID drawing from the public sector (e.g., site plan reviewer), the private sector (e.g., a site designer) and an NGO or community group with an advocacy or community perspective.  
Focus: These panelists will be asked to address some less tangible aspects of regarding the acceptability of R-LID, such as doubts about effectiveness, regulatory uncertainty and community acceptability. They will be asked to identify such impediments and provide recommendations (e.g., outreach and education) to address such impediments. **Recommendations**  
Time: 1 hour - 15 minutes each; 15 minutes Q&A

**12:15 – 12:30      Wrap-up**

Presenter: COG Staff

Focus: Discussion of what's been accomplished and next steps. Within a few days of the workshop, COG will prepare the final recommendations, post them on the workshop web site and invite additional comment from the permittees for inclusion in the workshop report. The heart of this will be the recommendations for action that is the focus of each of the panel discussions.

**12:30                      Adjourn**




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### Anacostia Premises

- The Anacostia is largely developed
  - Little remaining "greenfield" opportunities
- Much of the existing development predate modern stormwater management requirements
- Some of the region's key "Activity Centers" are partly or wholly in the Anacostia Watershed
  - #2 - Federal Center/Southwest/Navy Yard
  - #5 - New York Avenue (DC)
  - #16 - Silver Spring CBD
  - #44 - White Oak
  - #45 - US Rte. 1 - Green Line
  - #46 - Greenbelt
  - #47 - New Carrollton
  - #48 - Route 1 (Pr Geo. Co.)
  - #49 - Konterra
- An important aspect of Anacostia restoration will depend on how stormwater is managed there as redevelopment occurs

*Wheaton Planning District*

o Russell Katz - 314 Canoll St.  
 o programs/policies/projects  
 o transit-oriented development  
 o Anacostia demographic  
   - affordable housing  
   - protecting historic areas  
 o Watershed 253  
 > priority places ~ Montgomery County

### Imperviousness Data (Sligo Creek)

Category	Acres
Roads	795.3
Parking Lots	383.4
Roofs	846.6
Driveways & Sidewalks	356.6
Total Imperviousness	2381.9
Total Watershed Acreage	7085.4
Percent Impervious	33.6

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## Logistics

- Date: March 26 & 27, 2009
- Location: MWCOG Training Center
  - Capacity of about 90 participants
- Other
  - Web site
    - Access to information
    - Registration
  - Possible display area
  - No fee, but limited registration

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## Objective & Outcomes

- Objective
  - Promote the use of Low Impact Development whenever redevelopment occurs in the Anacostia watershed
    - Technical Integrity
    - Economic Feasibility
    - Acceptance (Design & approval "culture")
- Outcomes
  - Recommendations for actions to help promote the use of R-LID
  - Enhanced ties between the Anacostia Partnership and the development community

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## Preparation

- Convene an Advisory Committee
- Finalize agenda
- Recruit speakers and, possibly, displays
- Prepare profiles of exemplary programs, policies & practices
  - Locally
  - Other locations
- Prepare draft recommendations
- Identify likely redevelopment areas in the Anacostia watershed

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### Why R-LID/ESD?

- Compensate to the extent practicable for highly impervious (pre-stormwater) areas
- Get quantity & quality controls as redevelopment occurs
- Little remaining opportunities for large-scale projects
- One slice of the comprehensive restoration plan

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### The Green Vision for Stormwater

- Street trees,
- Green roofs,
- Wooded parks and stream buffers,
- Landscape planters,
- Cisterns and water reuse,
- Permeable pavements,

In other words, R-LID/ESD

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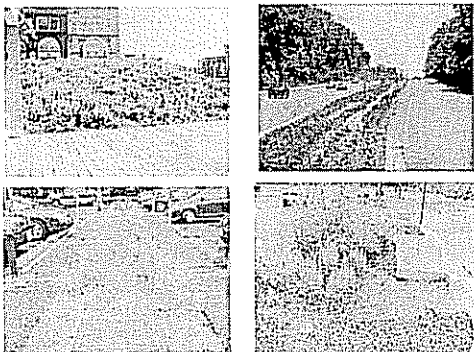
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### LID/ESD



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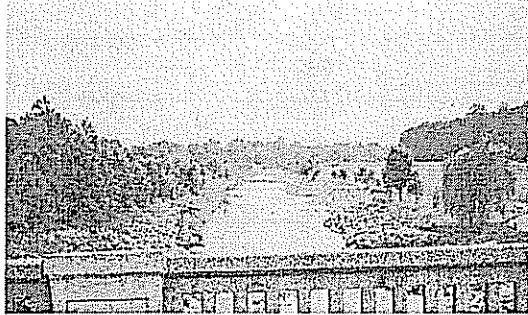
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The principle challenge for urban areas is stormwater



Northeast Branch, Anacostia River

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Flooding and More Sediment



The same place on Northeast Branch

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Erosion



Stream Near Riverdale, Maryland

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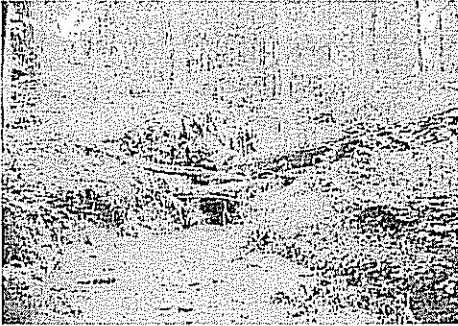
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### Loss of stream banks and more erosion



Upper Beaverdam Creek

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### Sediment



Northwest Branch

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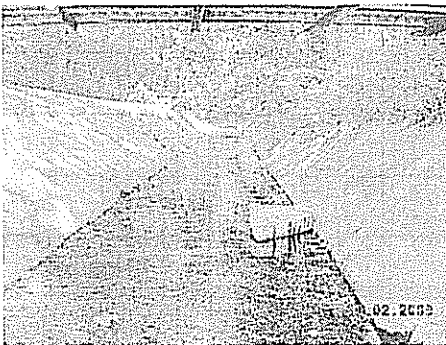
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### Armoring



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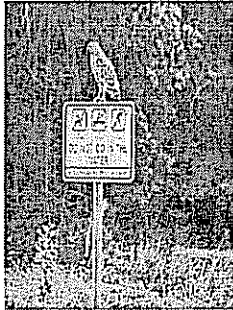
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## Bacteria



Sligo Creek

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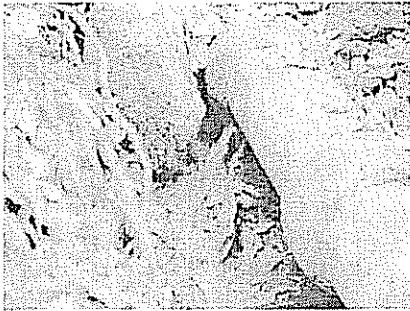
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## Broken sewer pipes



Northwest Branch

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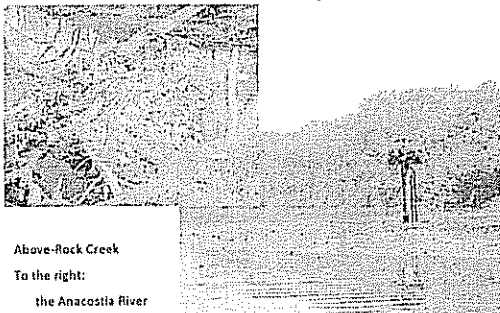
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## Trash (20,000 tons/year in the Anacostia!)



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## Proposed Topics

- Exemplary programs, policies & projects
- Technology & economics
- Regulators' perspective & recommendations
- Developers' perspective & recommendations
  - Includes engineers & site designers
- NGOs' perspective & recommendations
- Getting Smart Growth and R-LID to work together
- Federal landowners' perspective and recommendations
- Assessing the "culture" of R-LID

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## Input & Assistance

- Comment on content, format & participants
  - Exemplary case studies?
  - Thoughts on displays?
  - Who should attend?
  - How best to strengthen Partnership-developer ties?
- Comment on objective & outcomes
  - Proposed recommendations?
- Recommendations for speakers
  - Volunteers?
- Anything else

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## Contact Information

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Water Resources Program Director  
Wash COG  
202-962-3352  
tgraham@mwkog.org

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